



**MIAMI-DADE COUNTY**  
**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY**  
**AFFAIRS (PERA)**  
**BOARD AND CODE ADMINISTRATION DIVISION**  
**NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidadecounty.gov/pera](http://www.miamidadecounty.gov/pera)

**WinDoor, Inc.**  
**7500 Amsterdam Drive**  
**Orlando, FL 32832**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Series "3000" Aluminum Fixed Window - L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **FEI0003**, titled "Series 3000 Fixed Impact (LMI) Window", sheets 1 through 9 of 9, dated 06/29/11, with revision A dated 02/14/12, prepared by PTC, Product Design Group, LLC, signed and sealed by Robert James Amoroso, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **11-0815.08** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



*Manuel Perez*  
5/23/12

**NOA No. 12-0320.13**  
**Expiration Date: September 16, 2014**  
**Approval Date: May 31, 2012**  
**Page 1**


**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No **FEI0003**, Sheets 1 through 9 of 9, titled "Series 3000 Fixed Impact (LMI) Window", dated 06/29/11, with revision a dated 02/14/12, prepared by PTC Product Design Group, LLC, signed and sealed by Robert James Amoruso, P.E.

**B. TESTS**

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of series 5000 aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3562-1**, specimens: **TFX-1, TFX-2, TFX-3, TFX-4, TFX-5 and TFX-6**, dated 09/24/08, and amendment letter dated 11/24/09, all signed and sealed by Gerard John Ferrara, P.E.  
*(Submitted under previous NOA #09-0519.05)*
2. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of series 5000 aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3563-1**, specimens: **TFX-7, TFX-8, TFX-9 and TFX-10**, dated 09/24/08, and amendment letter dated 11/24/09, all signed and sealed by Gerard John Ferrara, P.E.  
*(Submitted under previous NOA #09-0519.05)*
3. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94  
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Large Missile Impact Test per FBC, TAS 201-94  
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of series 5000 aluminum fixed window, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-210-3564-1**, specimens: **TFX-11, TFX-12, TFX-13 and TFX-14**, dated 09/24/08, and amendment letter dated 11/24/09, all signed and sealed by Gerard John Ferrara, P.E.  
*(Submitted under previous NOA #09-0519.05)*

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0320.12  
Expiration Date: September 16, 2014  
Approval Date: May 31, 2012

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**C. CALCULATIONS:**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, dated 03/18/09, prepared by PTC, LLC, signed and sealed by Robert J. Amoruso, P.E.  
*(Submitted under previous NOA#11-0815.08)*
2. Glazing complies with ASTM E1300-04

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

**E. MATERIAL CERTIFICATIONS**


1. Notice of Acceptance No. **11-0624.02** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont SentryGlas® Interlayer**" dated 08/25/11, expiring on 01/14/17.

**F. STATEMENTS**

1. Statement letter of conformance, complying with FBC-2007 and FBC-2010, and no financial interest, dated March 13, 2012, signed and sealed by Robert James Amoruso, P.E.
2. Laboratory compliance letters for Test Reports No. **NCTL-210-3562-1**, **NCTL-210-3563-1**, and **NCTL-210-3564-1**, issued by National Certified Testing Laboratories, dated November 18 and 24, 2008, signed and sealed by Gerard J. Ferrara, P.E.  
*(Submitted under previous NOA #09-0519.05)*

**G. OTHERS**

1. Notice of Acceptance No. **11-0815.08**, issued to WinDoor, Inc. for their Series "3000" Aluminum Fixed Window – L.M.I., approved on 09/29/11 and expiring on 09/16/14.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 12-0320.13  
Expiration Date: September 16, 2014  
Approval Date: May 31, 2012

WINDOOR, Inc.

IMPACT SERIES 3000 Fixed Window, LMI

INSTALLATION ANCHORAGE DETAILS

GENERAL NOTES:

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE 2007 AND 2010 FLORIDA BUILDING CODE (FBC) AT THE DESIGN PRESSURES STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON SIGNED AND SEALED TEST REPORT # NCTL-210-3743-3A, NCTL-210-3743-5A AND NCTL-210-3743-7A DATED 09/29/2008 AND ASSOCIATED LABORATORY STAMPED DRAWINGS AND WERE TESTED IN ACCORDANCE WITH CURRENT DADE COUNTY PROTOCOLS.
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE MASONRY AND 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
3. WHEN WOOD BUCKS ARE USED, THEY SHALL NOT BE CONSIDERED PART OF THE STRUCTURAL SUBSTRATE REGARDLESS OF THEIR ATTACHMENT TO THE STRUCTURAL SUBSTRATE. WOOD BUCKS SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE.
- BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD.
4. WHEN 1X AND 2X WOOD BUCKS ARE USED AND IN CONTACT WITH CONCRETE AND/OR MASONRY, THE WOOD USED SHALL BE EITHER A PRESERVATIVE TREATED SOUTHERN YELLOW PINE OR A DURABLE WOOD SPECIES IN ACCORDANCE WITH 2007 AND 2010 FBC - BUILDING, SECTION 2326.2. THE WOOD USED MUST HAVE A SPECIFIC GRAVITY OF 0.55 MINIMUM.
5. AN IMPACT PROTECTIVE SYSTEM (I.E. SHUTTERS, ETC.) IS NOT REQUIRED WITH THESE WINDOWS.
6. WINDOW FRAME MATERIAL: ALUMINUM 6063-T6.
7. GLASS MEETS THE REQUIREMENTS OF ASTM E1300-04.
8. A 1/3 INCREASE IN ALLOWABLE STRESS FOR WIND LOADS WAS NOT USED IN THE DESIGN OF THE PRODUCTS SHOWN HEREIN. WIND LOAD DURATION FACTOR (Cd = 1.6) HAS NOT BEEN USED FOR WOOD ANCHOR DESIGN.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN ON THE ELEVATIONS.
2. NOT APPLICABLE.
3. ALL INSTALLATION ANCHORS MUST HAVE A CORROSION RESISTANT COATING OR BE MADE OF STAINLESS STEEL.
4. SEAL FRAME CORNERS AT SILL-TO-JAMB AND HEAD-TO-JAMB WITH SMALL JOINT SEAM SEALANT.
5. SEAL ALL INSTALLATION ANCHOR HEADS WITH SMALL JOINT SEAM SEALANT DURING INSTALLATION. APPLY SEALANT IN COUNTERSINK BEFORE ANCHOR INSTALLATION AND SEAL ANCHOR HEAD AFTER ANCHOR INSTALLATION. SEE CORNER DETAIL.
6. THE SPACING OF INSTALLATION ANCHORS DEPICTED IS THE MAXIMUM SPACING TO BE USED FOR PRODUCT INSTALLATION. ANCHORS ARE TO MATCH TYPE, SIZE, EDGE DISTANCE AND EMBEDMENT OF THOSE SHOWN IN TABLE 1 FOR RESPECTIVE SUBSTRATE.
7. SHIM AS REQUIRED AT EACH INSTALLATION ANCHOR WITH LOAD BEARING SHIM(S). MAXIMUM ALLOWABLE SHIM THICKNESS IS 1/4 INCH. SHIM WHERE SPACE OF 1/16 INCH OR GREATER OCCURS. SHIM(S) SHALL BE CONSTRUCTED OF HIGH DENSITY PLASTIC OR BETTER.
8. FOR INSTALLATION INTO WOOD FRAMING, USE WOOD SCREWS OR TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE THE MINIMUM EMBEDMENT, MINIMUM EDGE DISTANCE AND MINIMUM ANCHOR SEPARATION OF 1 INCH AS SHOWN IN TABLE 1.
9. FOR INSTALLATION THROUGH 1X WOOD BUCK TO CONCRETE / MASONRY, OR DIRECTLY INTO CONCRETE / MASONRY, USE CONCRETE SCREWS OF SUFFICIENT LENGTH TO ACHIEVE MINIMUM EMBEDMENT AND MINIMUM EDGE DISTANCE AS SHOWN IN TABLE 1. TO PREVENT WOOD BUCKING FROM SPLITTING, DRILL 1/4" DIAMETER HOLE TO ACCOMODATE ANCHORS.
10. FOR INSTALLATION INTO MIAMI-DADE APPROVED MULLION, USE TAPPING SCREWS OF SUFFICIENT LENGTH TO ACHIEVE A MINIMUM OF 3 THREADS EMBEDMENT PAST INSIDE OF MULLION'S WEB AS SHOWN ON TABLE 1. APPLICABLE ONLY FOR JAMB TO MULLION CONNECTION, SHIMS CANNOT BE USED.
11. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).
12. FOR CONCRETE BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
13. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
- A. WOOD - SOUTHERN YELLOW PINE. MINIMUM SPECIFIC GRAVITY OF 0.55.
- B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH SHOWN IN TABLE 1 AND COMPLIES WITH ACI 301.
- C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90 MEDIUM WEIGHT (DENSITY > 117 PCF). GROUT FILLED PER FLORIDA BUILDING CODE.

Table 1 - Notes:

- A. Other manufacturer's concrete screws may be acceptable if they meet or exceed the allowable shear value of 264 lbs, are installed at a minimum embedment required for that allowable and the installation meets the edge distance and spacing requirements for that anchor at the prescribed shear capacity.
- B. All screws will be "flat" head.
- C. Screw lengths will be sufficient to allow the minimum embedment to be made into the receiving substrate.

TABLE 1 - ANCHOR SCHEDULE							
Substrate	Minimum Concrete Strength (psi)	Anchor Type	Size	Manufacturer	Minimum Embedment (in)	Minimum Edge Distance (in)	Comments
CMU	See Note 13.c	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon	1 1/4	2 1/2	See Table 1 notes.
				Elco Tapcon	1 1/4	1 3/4	
Concrete	3192	Carbon Steel Concrete Screw	1/4"	ITW Buildex Tapcon	1 3/4	1 7/8	
	2000	Carbon Steel Concrete Screw		ITW Buildex Tapcon with Advanced Threadform Technology	1 3/4	1 1/2	
	3000	Stainless Steel Concrete Screw			1 3/4	1 1/4	
	2700	Carbon Steel Concrete Screw		Elco Tapcon	1 3/4	1 3/8	
	2000	Carbon Steel Concrete Screw		Power Fasteners Tapper	1 3/4	2 7/8	
	2000	Stainless Steel Concrete Screw			1 3/4	2 1/2	
Wood Frame	n/a	Wood Screw (Carbon or Stainless Steel)	#14	ANSI B18.6.1	1 1/2	1	
		Tapping Screw (Carbon or Stainless Steel)	1/4"	ASME B18.6.4, Type AB	1 1/2	1	
Mullion (Jamb Only)	n/a	Tapping Screw (Carbon or Stainless Steel)	1/4"	ASME B18.6.4	3 screw threads embedment past inside of mullion's web.	n/a	

TABLE OF CONTENTS		
SHEET	REV.	SHEET DESCRIPTION
1	0	GENERAL AND INSTALLATION NOTES
2	0	ELEVATIONS AND ANCHOR LAYOUT
3	0	DESIGN PRESSURE TABLES AND CORNER DETAIL
4	0	VERTICAL SECTIONS
5	0	VERTICAL SECTIONS
6	0	VERTICAL SECTIONS
7	0	VERTICAL & HORIZONTAL SECTIONS
8	0	HORIZONTAL SECTIONS
9	0	BOM, COMPONENTS & GLAZING DETAILS

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0320.13 Expiration Date 12-16-2014

By *Manuel J. Amoroso* Miami Dade Product Control

WINDOOR INCORPORATED

DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
GENERAL AND INSTALLATION NOTES

SIZE

DRAWN BY:  
JBH

DWG NO.  
FEI0003

REV  
A

SCALE  
NTS

DATE:  
06/29/11

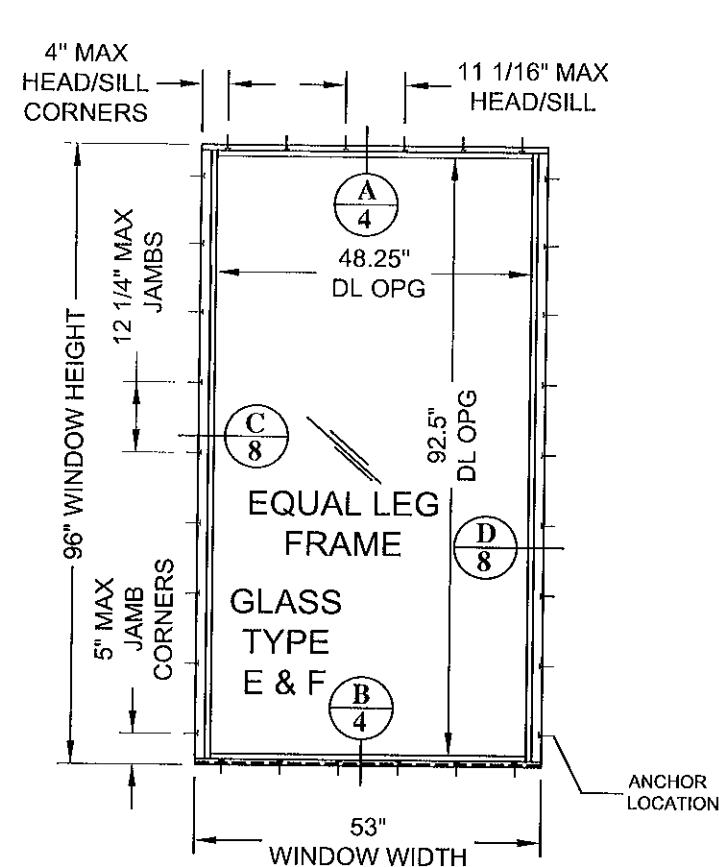
SHEET  
1 OF 9

7500 AMSTERDAM DRIVE  
ORLANDO, FL 32832  
Phone: 407.481.8400  
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www.windoorinc.com

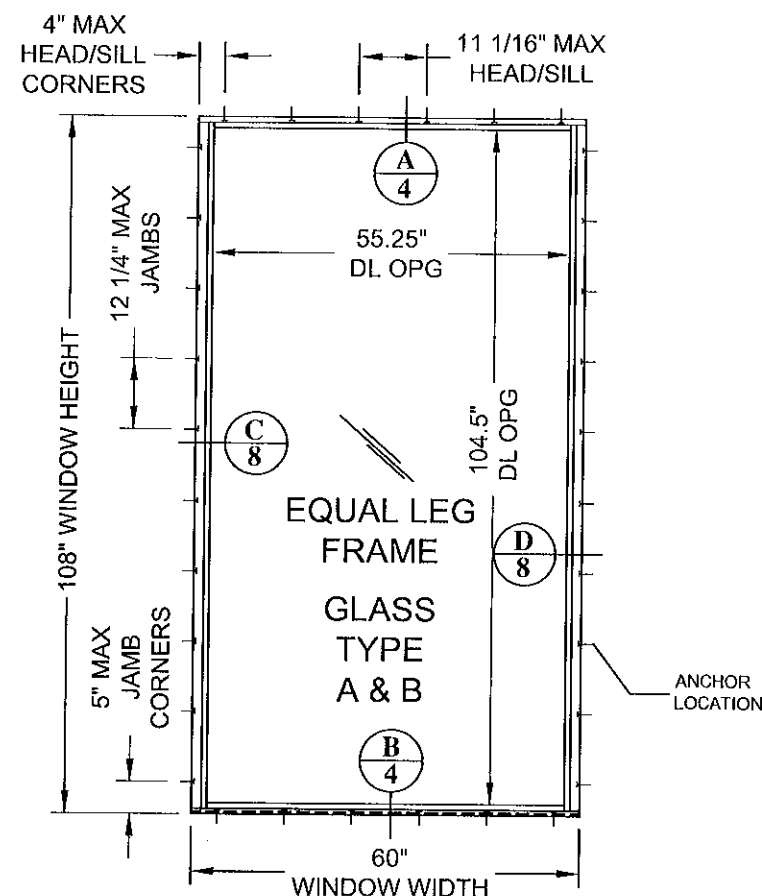
PTC Product Design Group, LLC  
PO Box 520775  
Longwood, FL 32752-0775  
321-690-1788 (P) 321-690-1789 (F)  
FBPE Cert. of Auth. No. 25935

REVISIONS		BY	DATE	DESCRIPTION
SHEET	REV	0	A	ORIGINAL ISSUE
		UPDATE TO 2010 FBC		

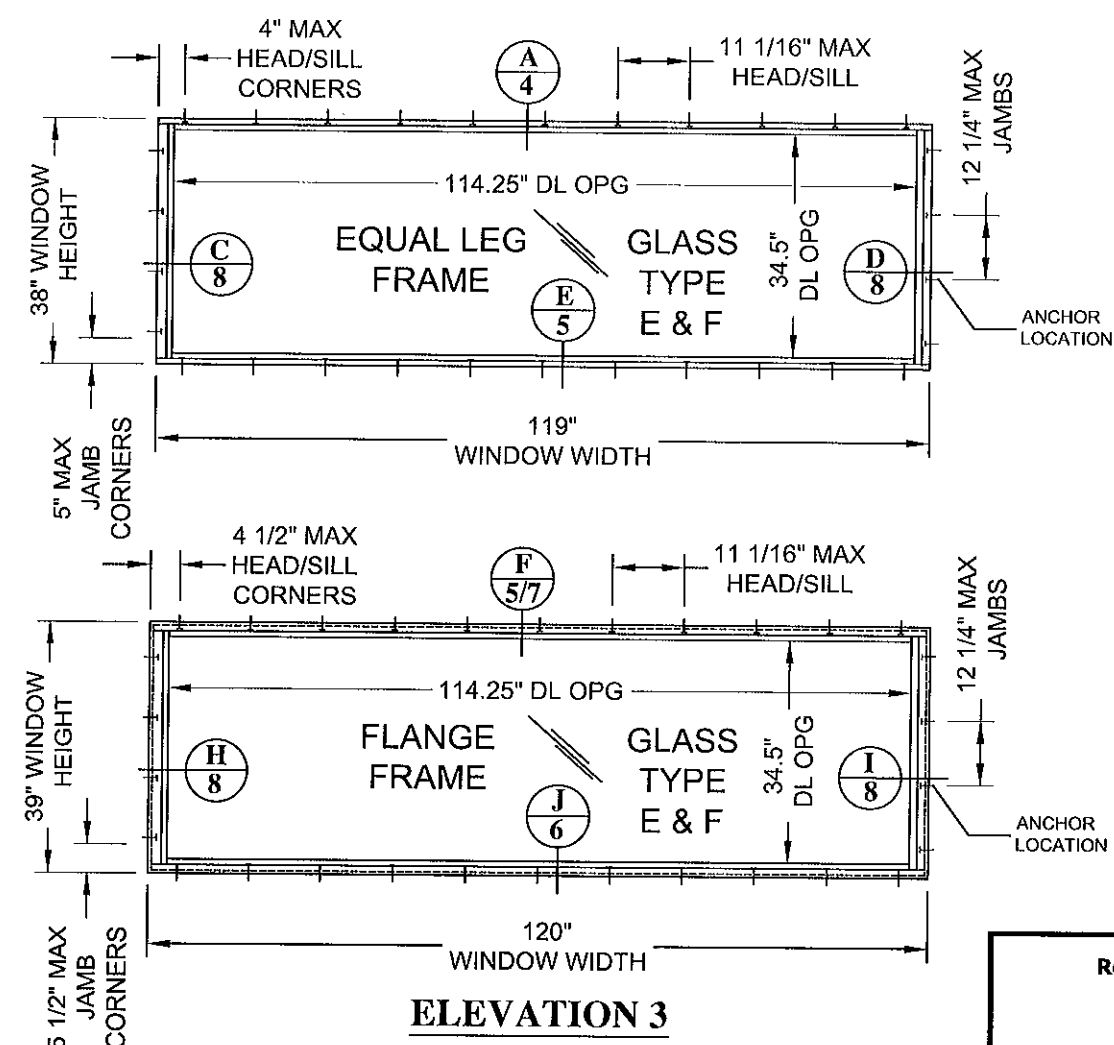
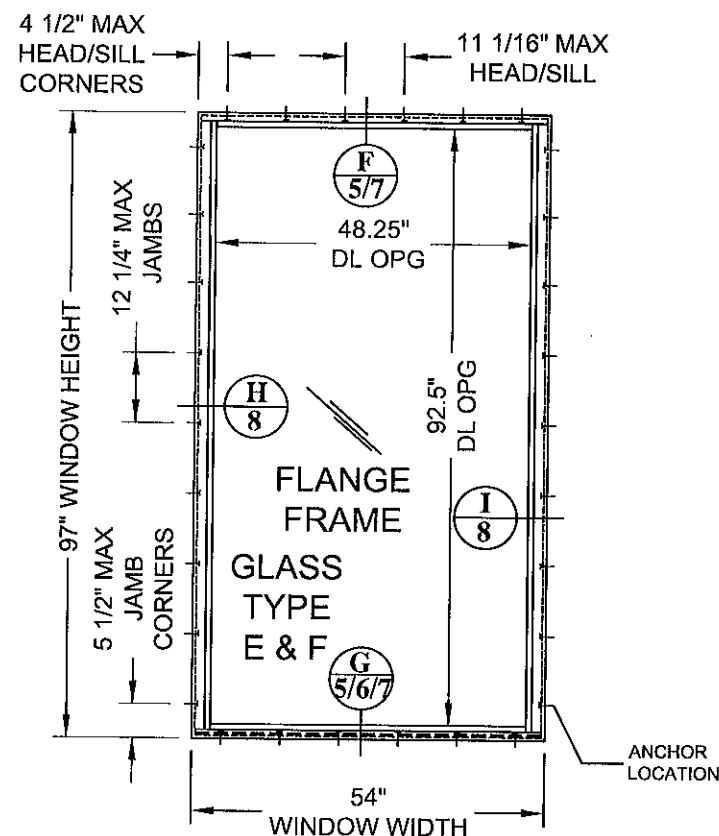
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**ELEVATION 1**



**ELEVATION 2**

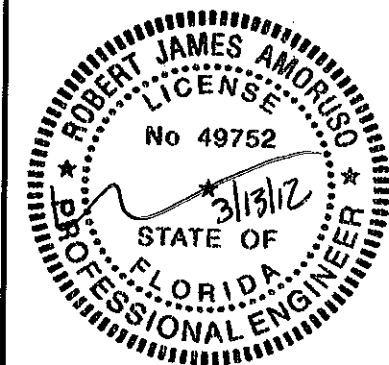


**ELEVATION 3**

**NOTES:**

- 1- ELEVATIONS ARE VIEWED FROM EXTERIOR.
- 2- ALL DIMENSIONS ARE IN INCHES.
- 3- DL OPG: DAY LIGHT OPENING.
- 5- ANCHOR LOCATION SPACINGS SHOWN FOR THE JAMBS ARE THE SAME FOR A WALL OR A MULLION.
- 6- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.
- 7- FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1\"

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0320.13  
Expiration Date SEPT. 16, 2014  
By *M. J. Amoruso*  
Miami Dade Product Control



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PO Box 520775  
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**WinDoor**  
INCORPORATED

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Phone: 407.481.8400  
Fax: 407.481.0505  
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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LM) WINDOW  
ELEVATION AND ANCHOR DETAILS

SIZE	DRAWN BY:	DWG NO.	REV
	JBH	FEI0003	A
SCALE	DATE:	SHEET	
NTS	06/29/11	20F9	

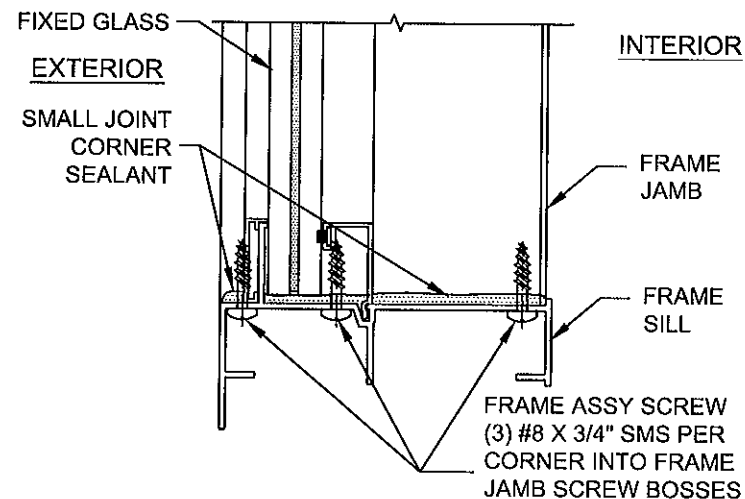
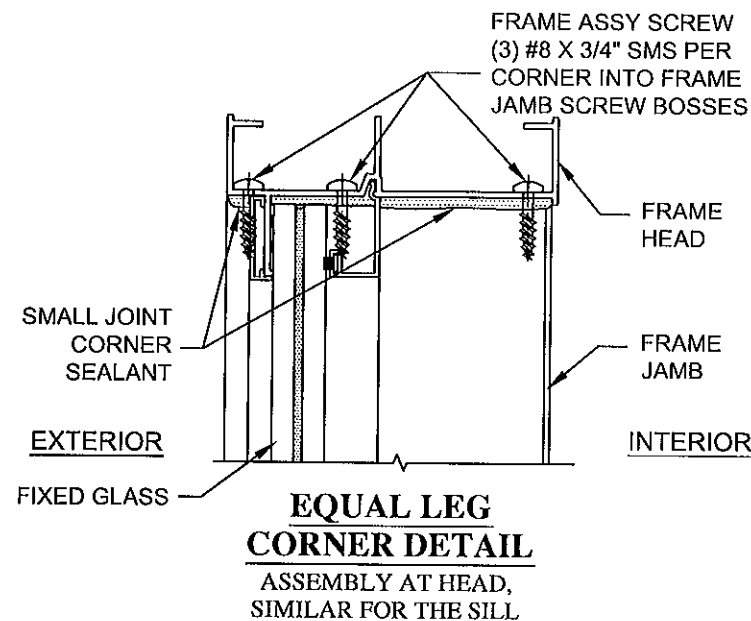
**REVISIONS**

SHEET	REV	DESCRIPTION	DATE	BY
0		ORIGINAL ISSUE	06/29/11	RJA
A		UPDATE TO 2010 FBC	02/14/12	JBH

This drawing and all associated component files are the sole property of WinDoor, Inc. and contains confidential, privileged and patented information. Any reproduction of this drawing is not permitted without written approval from WinDoor, Inc. management.

TABLE 2 - Design Pressure (psf) for large Missile Impact

Elevation	Window Size based on Buck Width and Height (in)		Design Pressure (psf)		Impact Rating
			Concrete/Masonry, Wood and Mullion Substrates (see Table 3 for installations in wood substrates)		
	Width	Height	Lami	Lami+IG	
1	up to 53"	up to 96"	110	109	Large Missile Impact
1	up to 52-1/8"	up to 96"	110	110	
2	up to 60"	up to 108"	110	107	
2	up to 58"	up to 108"	110	110	
2	up to 60"	up to 105"	110	110	
3	60" to 119"	up to 38"	131	128	



**EQUAL LEG  
CORNER DETAIL**  
ASSEMBLY AT HEAD,  
SIMILAR FOR THE SILL

**FLANGE FRAME  
CORNER DETAIL**  
ASSEMBLY AT SILL,  
SIMILAR FOR THE HEAD

TABLE 3  
Large Missile Impact - Wood Substrate Installations

Elevation	Window Size based on Buck Width and Height (in)			Design Pressure (psf)	Impact Rating
	Width	Height		Lami & Lami+IG	
1	47	> 82	to 83	109	Large Missile Impact
1	47	> 91	to 92	108	
1	47	> 92	to 93	107	
1	47	> 93	to 94	105	
1	47	> 94	to 95	104	
1	52 1/8	> 87	to 88	108	
1	52 1/8	> 88	to 89	106	
1	52 1/8	> 89	to 90	105	
1	52 1/8	> 90	to 91	103	
1	52 1/8	> 91	to 92	101	
1	52 1/8	> 92	to 93	100	
1	52 1/8	> 93	to 94	98	
1	52 1/8	> 94	to 95	97	
1	52 1/8	> 95	to 96	96	
1	53	> 79	to 80	108	
1	53	> 80	to 81	106	
1	53	> 81	to 82	104	
1	53	> 82	to 83	102	
1	53	> 86	to 87	109	
1	53	> 87	to 88	107	
1	53	> 88	to 89	104	
1	53	> 89	to 90	104	
1	53	> 90	to 91	102	
1	53	> 91	to 92	100	
1	53	> 92	to 93	99	
1	53	> 93	to 94	97	
1	53	> 94	to 95	96	
1	53	> 95	to 96	106	
2	52 1/8	> 96	to 97	106	
2	52 1/8	> 97	to 98	105	
2	52 1/8	> 98	to 99	103	
2	52 1/8	> 99	to 100	102	
2	52 1/8	> 100	to 101	100	
2	52 1/8	> 101	to 102	99	
2	52 1/8	> 102	to 103	98	
2	52 1/8	> 103	to 104	97	
2	52 1/8	> 104	to 105	95	
2	52 1/8	> 105	to 106	94	
2	52 1/8	> 106	to 107	93	
2	52 1/8	> 107	to 108	92	
2	53	> 96	to 97	105	
2	53	> 97	to 98	104	
2	53	> 98	to 99	102	
2	53	> 99	to 100	101	
2	53	> 100	to 101	99	
2	53	> 101	to 102	98	
2	53	> 102	to 103	97	
2	53	> 103	to 104	95	
2	53	> 104	to 105	94	
2	53	> 105	to 106	93	
2	53	> 106	to 107	92	
2	53	> 107	to 108	91	

TABLE 3 - continued  
Large Missile Impact - Wood Substrate Installations

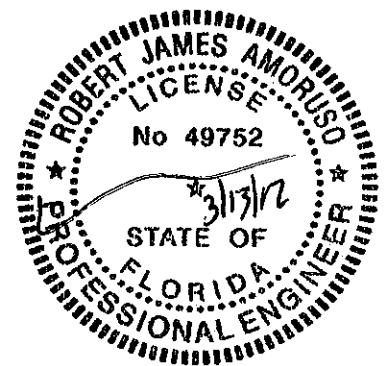
Elevation	Window Size based on Buck Width and Height (in)			Design Pressure (psf)	Impact Rating
	Width	Height		Lami & Lami+IG	
2	60	> 69	to 70	109	Large Missile Impact
2	60	> 70	to 71	106	
2	60	> 76	to 77	108	
2	60	> 77	to 78	106	
2	60	> 78	to 79	104	
2	60	> 79	to 80	102	
2	60	> 80	to 81	100	
2	60	> 81	to 82	98	
2	60	> 82	to 83	96	
2	60	> 83	to 84	108	
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2	60	> 101	to 102	91	
2	60	> 102	to 103	89	
2	60	> 103	to 104	88	
2	60	> 104	to 105	87	
2	60	> 105	to 106	86	
2	60	> 106	to 107	85	
2	60	> 107	to 108	93	

## NOTES:

- 1- FOR EQUAL LEG WINDOWS, BUCK DIMENSIONS ARE THE SAME AS WINDOW DIMENSIONS.
- 2- FOR FLANGE WINDOWS, BUCK DIMENSIONS ARE 1" LESS THAN WINDOW DIMENSIONS.
- 3- LAMI: LAMINATED GLASS
- 4- IG: INSULATED GLASS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0320.13  
Expiration Date SEPT. 16, 2014  
By *Manuel Jara*  
Miami Dade Product Control

Robert J. Amoroso, P.E.  
FL License No. 49752



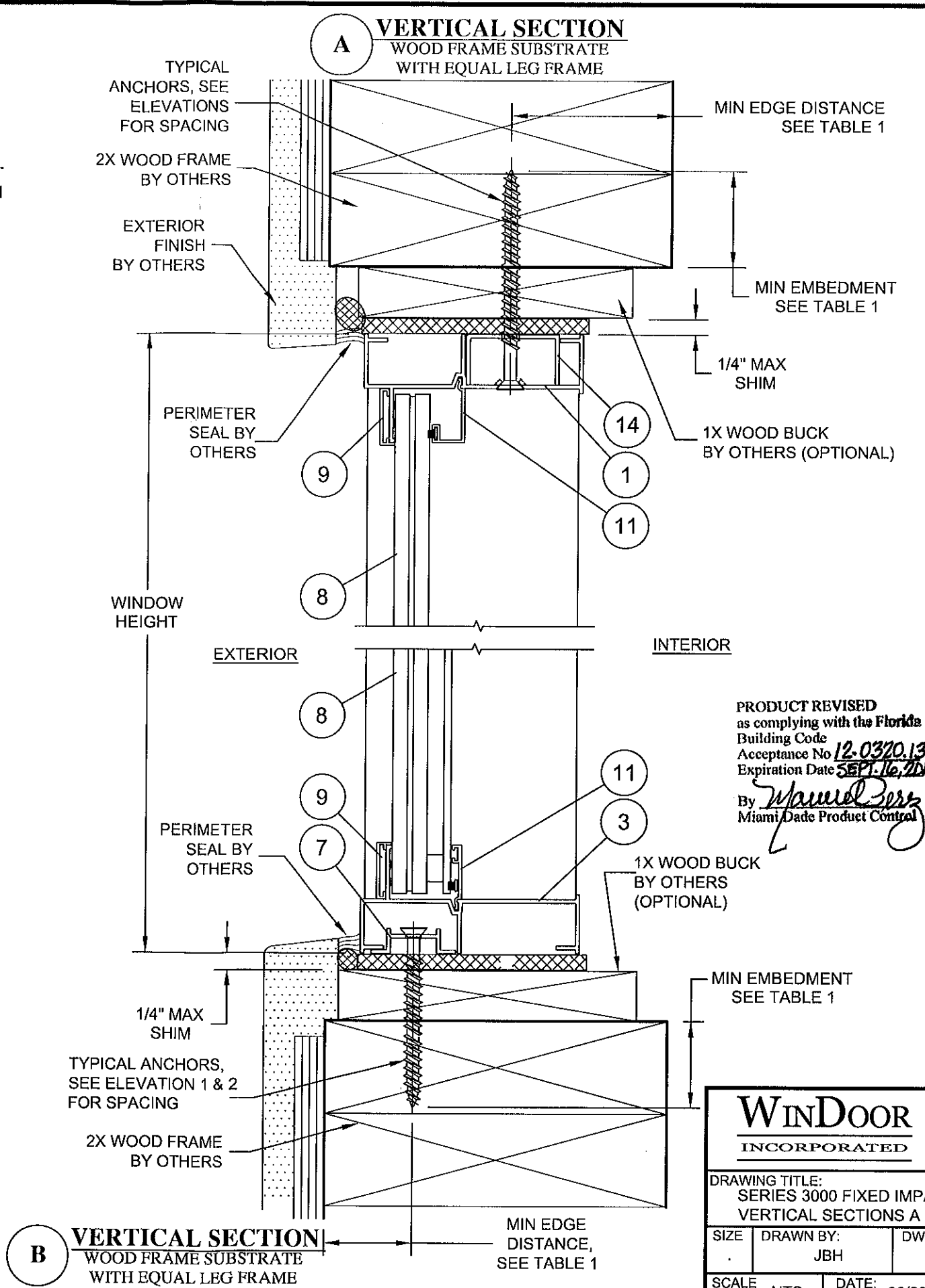
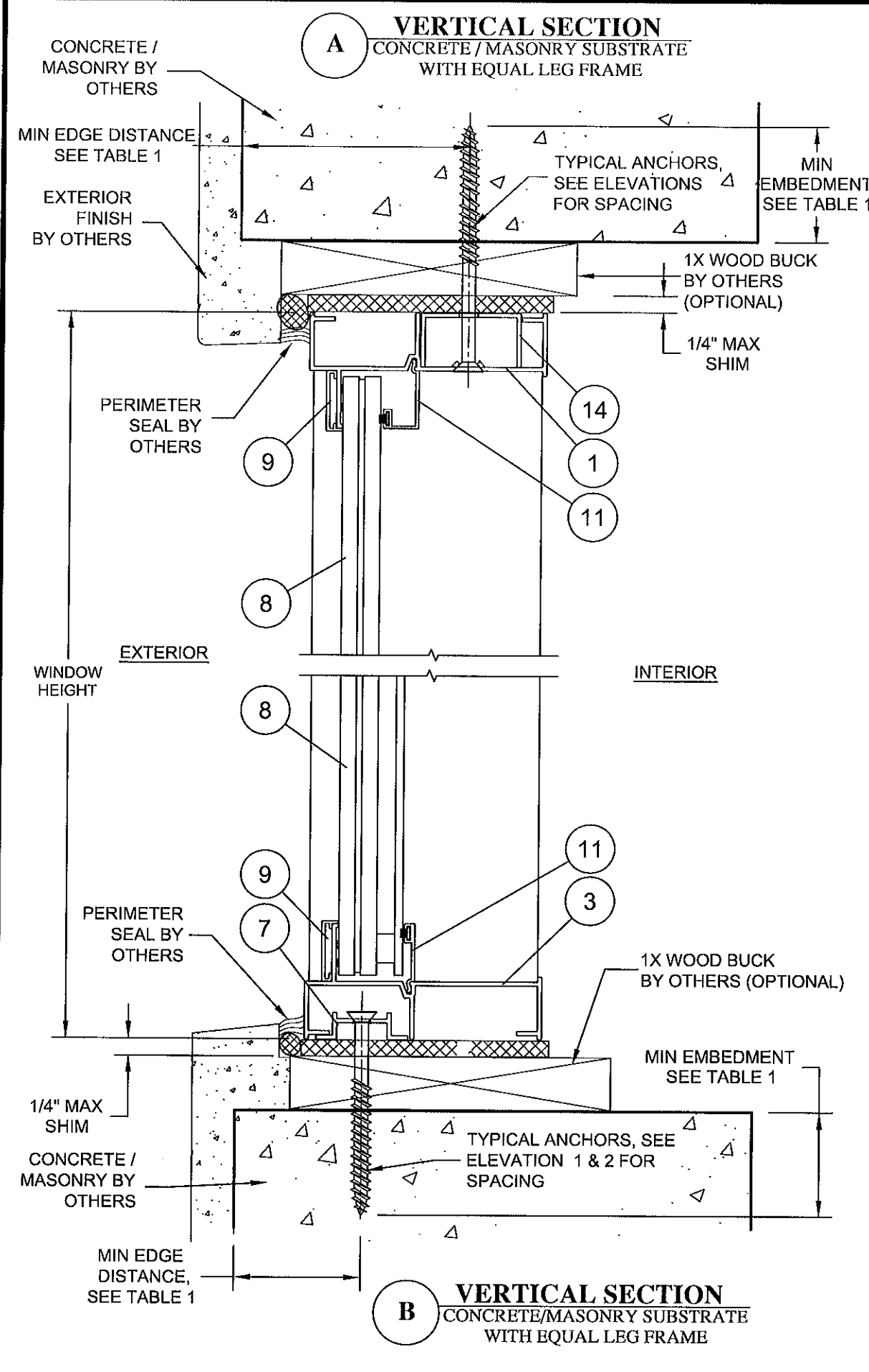
PTC Product Design Group, LLC  
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Longwood, FL 32752-0775  
321-690-1788 (P) 321-690-1789 (F)  
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INCORPORATED

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ORLANDO, FL 32832  
Phone: 407.481.8400  
Fax: 407.481.0505  
www.windoorinc.com

DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
DESIGN PRESSURE TABLES AND CORNER DETAILS

SIZE	DRAWN BY: JBH	DWG NO. FEI0003	REV A
SCALE NTS	DATE: 06/29/11	SHEET 30F9	



PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0320.13  
Expiration Date SEPT. 16, 2014  
By *Manuel Perry*  
Miami Dade Product Control

Robert J. Amoruso, P.E.  
FL License No. 49752

**ROBERT JAMES AMORUSO**  
LICENSE  
No 49752  
5/13/12  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER

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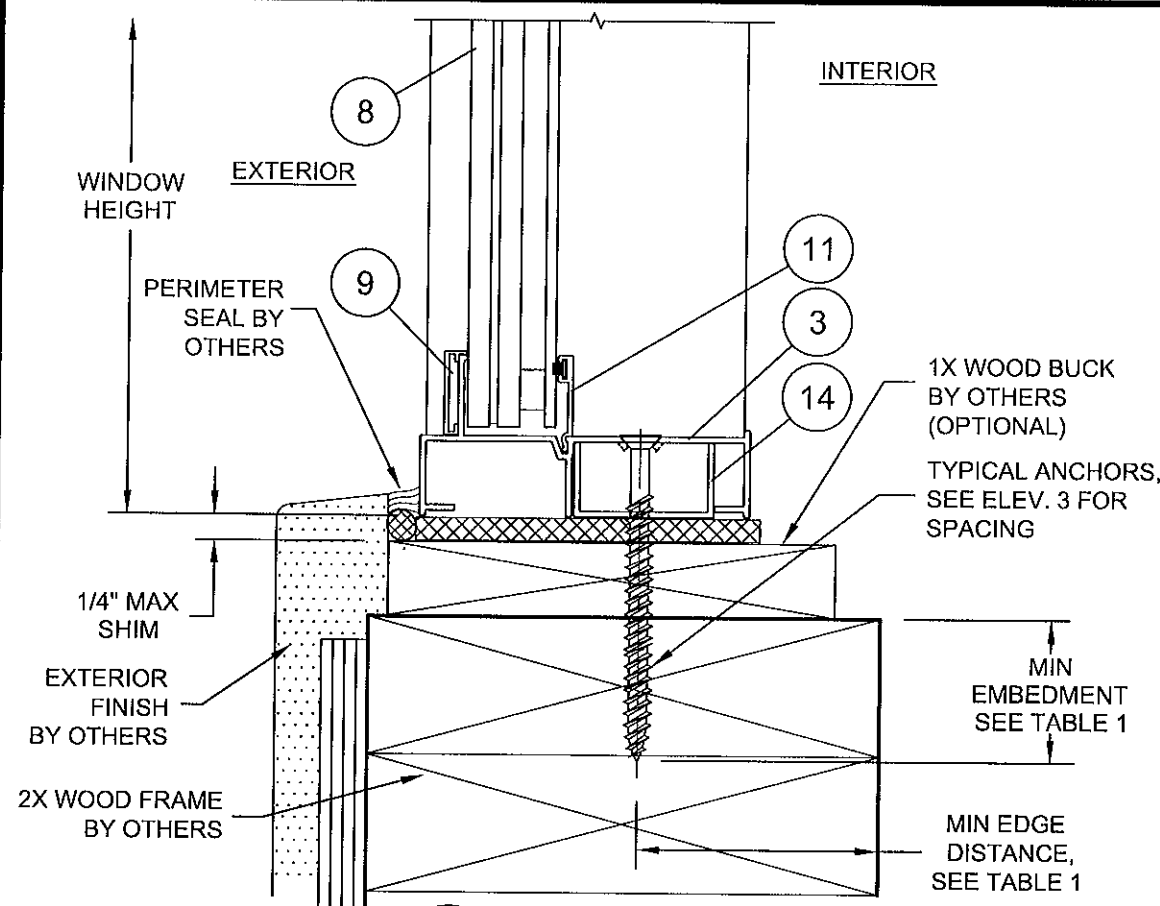
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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
VERTICAL SECTIONS A & B

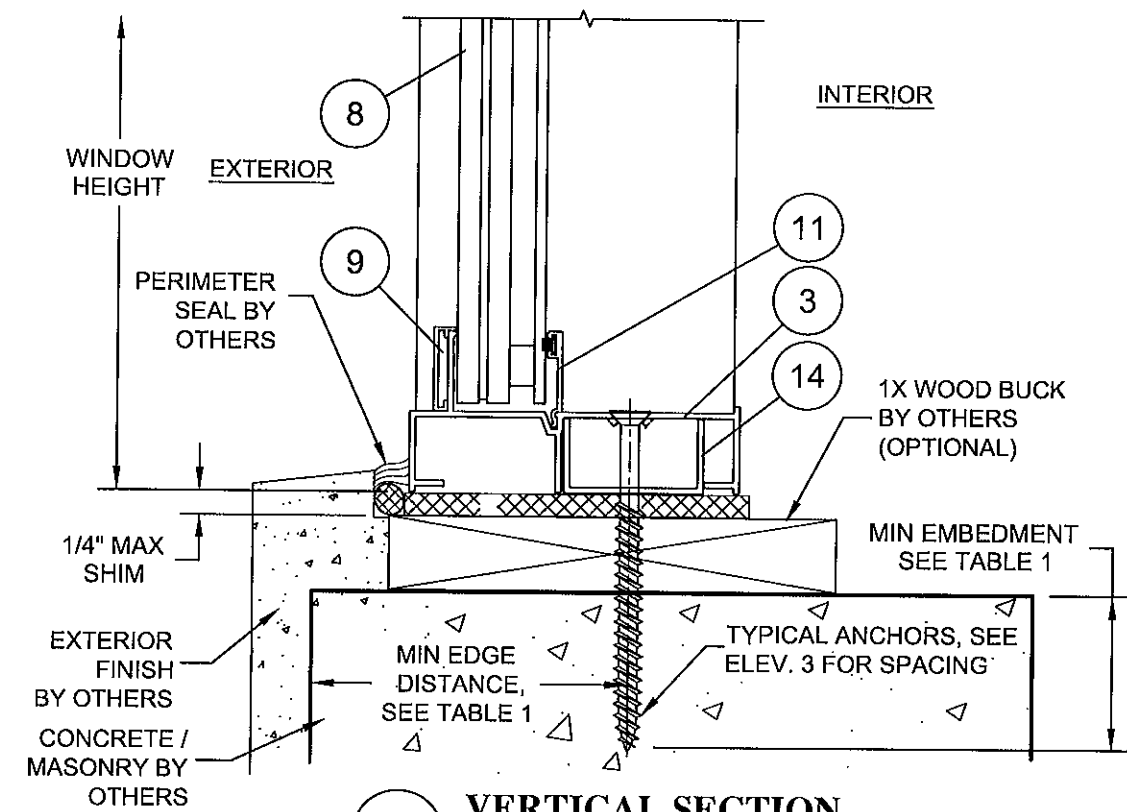
SIZE	DRAWN BY: JBH	DWG NO. FEI0003	REV A
SCALE NTS	DATE: 06/29/11	SHEET 40F9	

REVISIONS			
SHEET	REV	DESCRIPTION	DATE
	0	ORIGINAL ISSUE	06/29/11
	A	UPDATE TO 2010 FBC	02/14/12

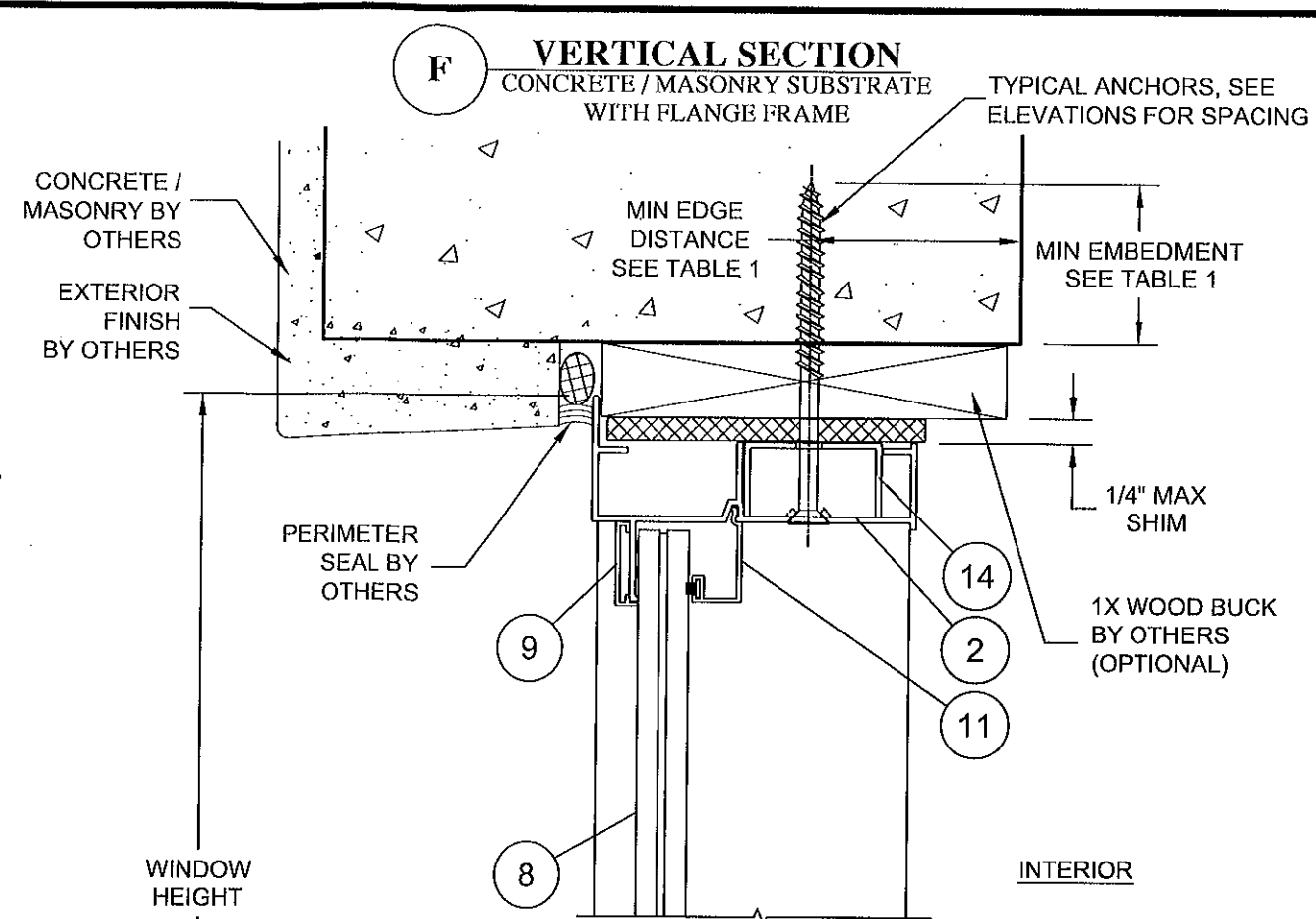
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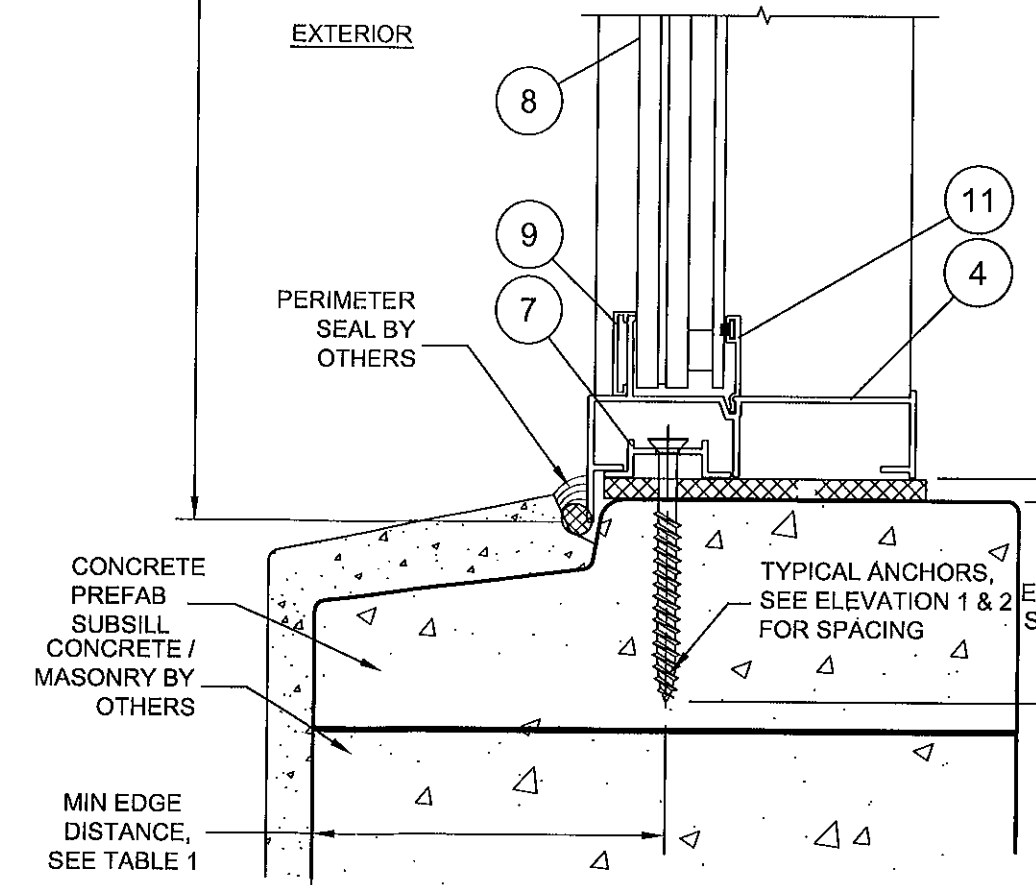
**E** VERTICAL SECTION  
WOOD FRAME SUBSTRATE  
WITH EQUAL LEG FRAME



**E** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH EQUAL LEG FRAME



**F** VERTICAL SECTION  
CONCRETE / MASONRY SUBSTRATE  
WITH FLANGE FRAME



**G** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 12-0320.13  
Expiration Date 12/31/14  
By *Manuel Perez*  
Miami Dade Product Control

Robert J. Amoroso, P.E.  
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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
VERTICAL SECTIONS E, F AND G

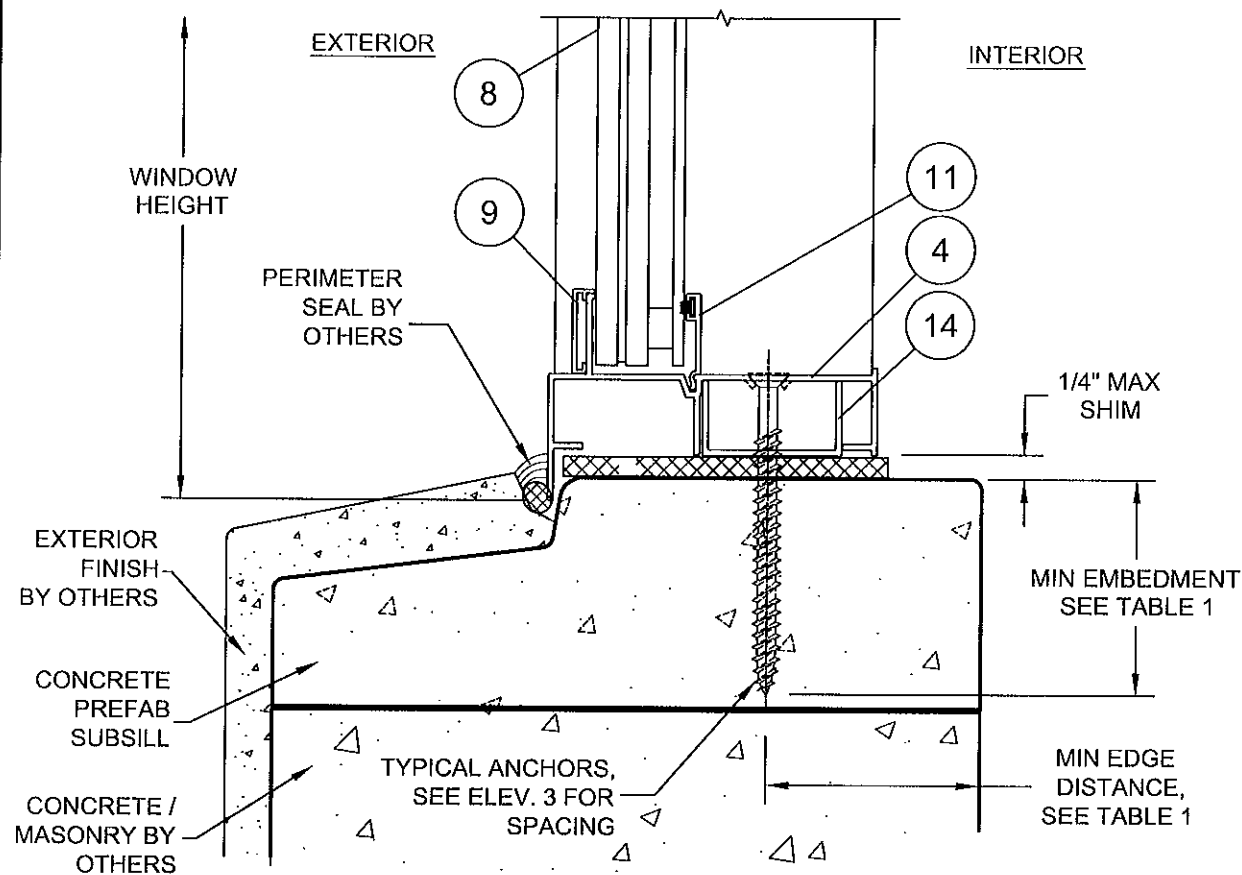
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SCALE NTS	DATE: 06/29/11	SHEET 50F9	

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	0	ORIGINAL ISSUE	06/29/11
	A	UPDATE TO 2010 FBC	02/14/12

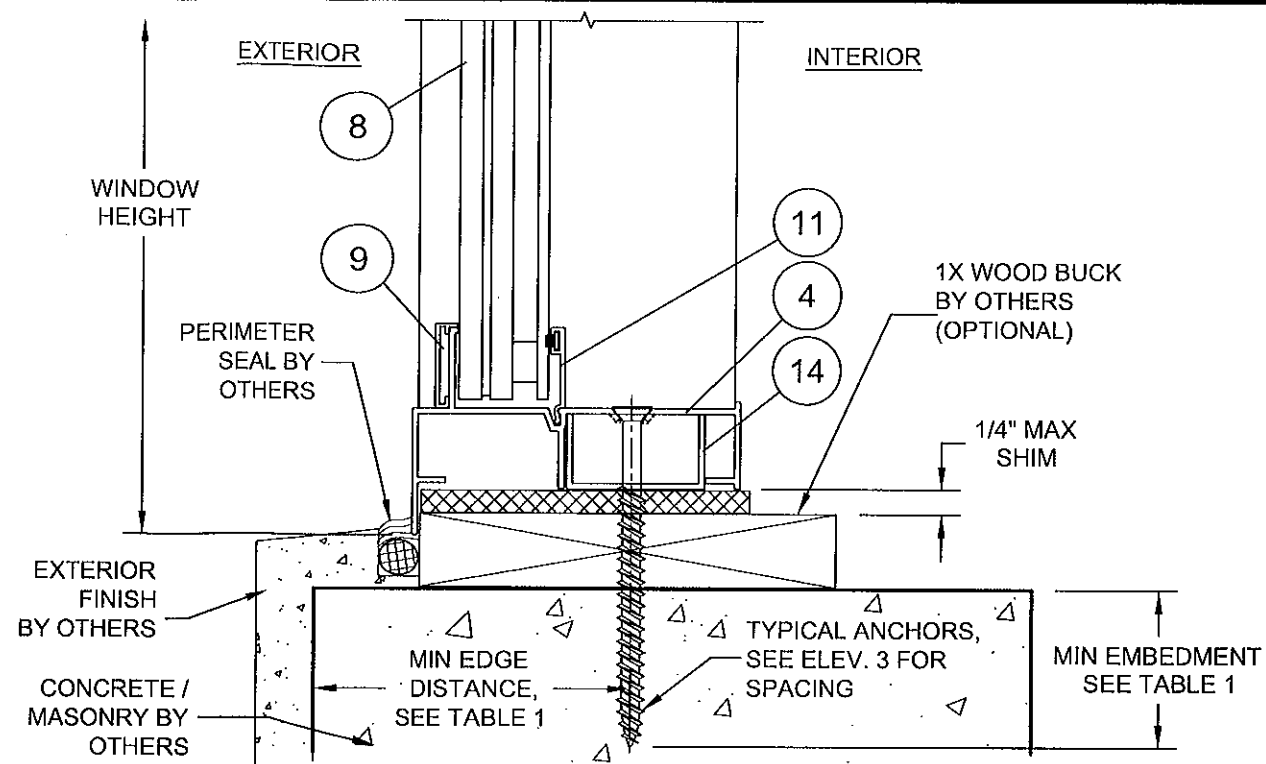
BY: RJA  
JBH

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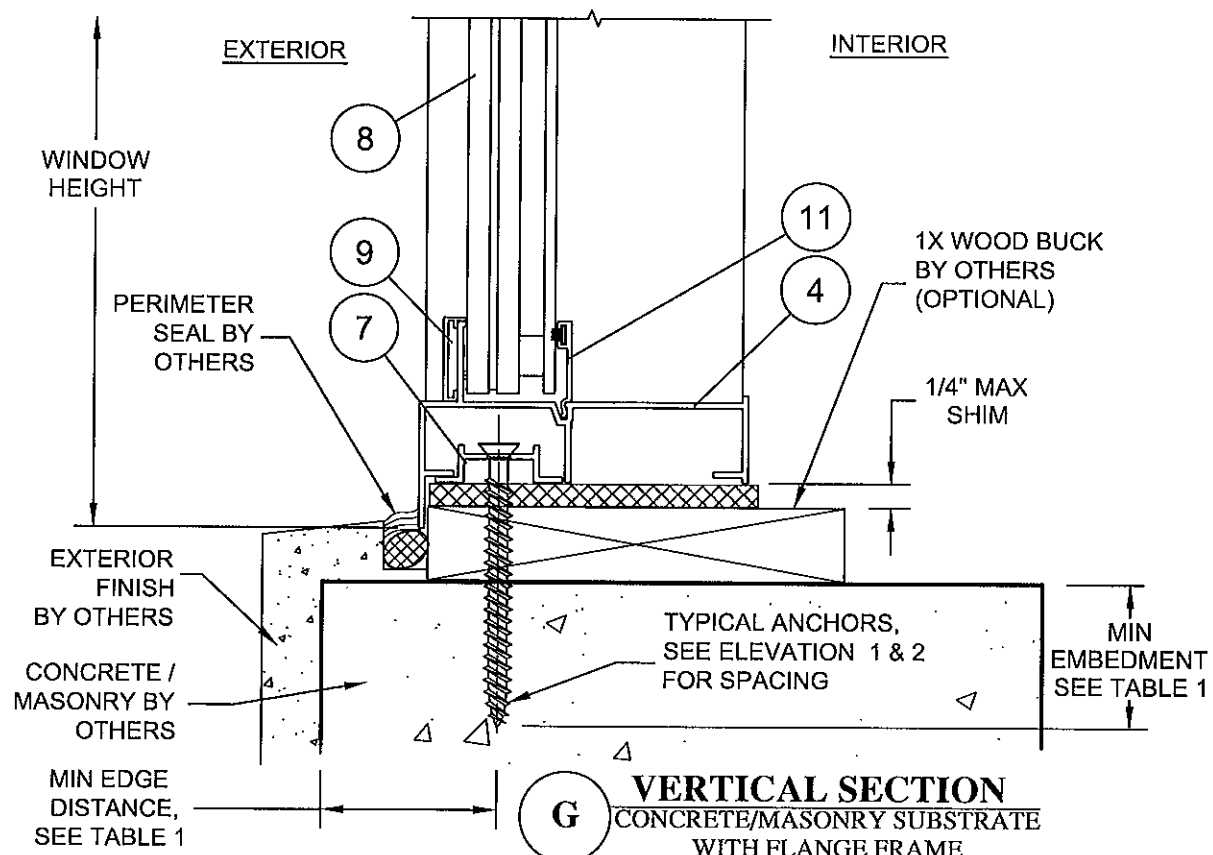




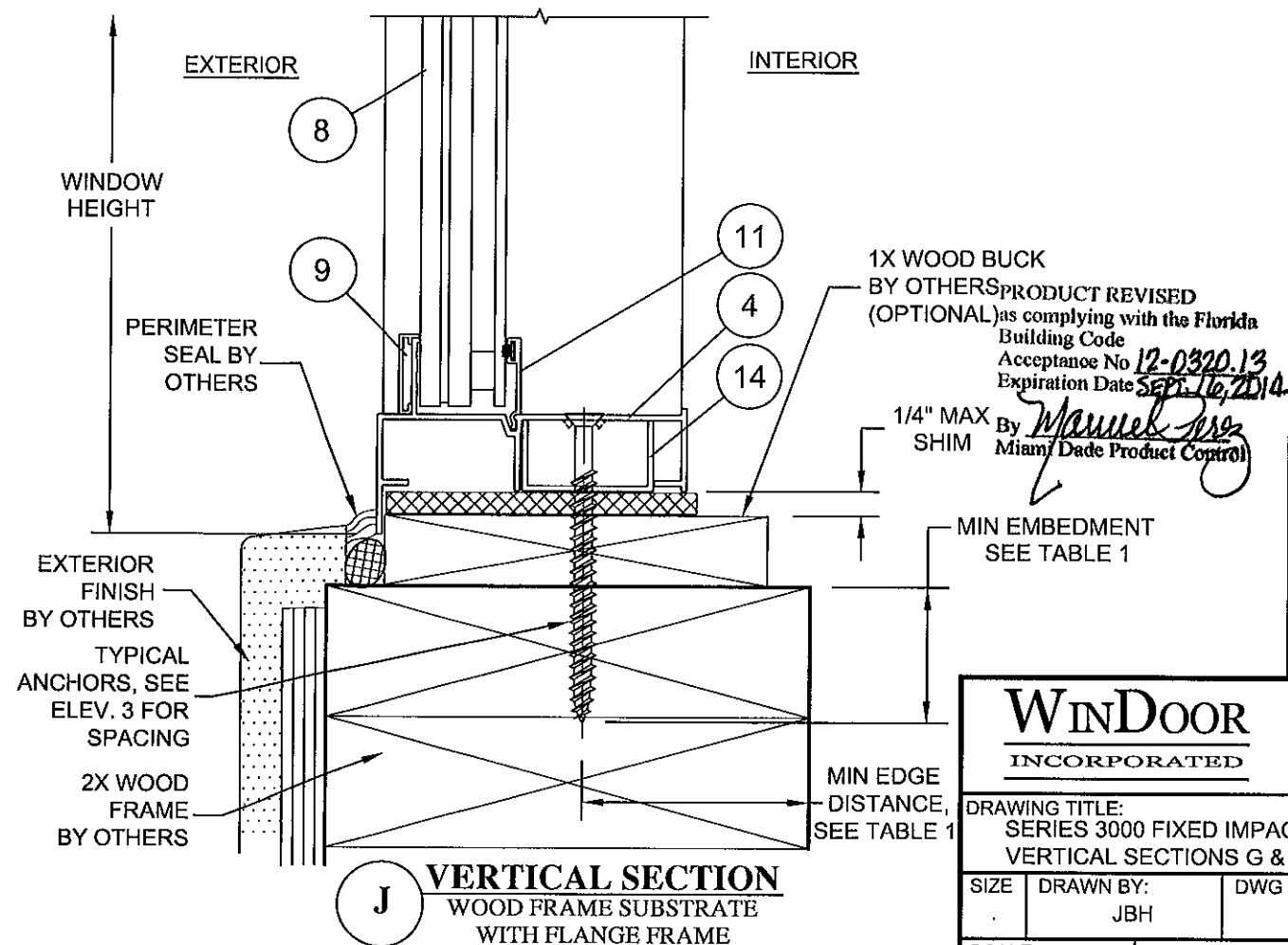
**J** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME



**J** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME



**G** VERTICAL SECTION  
CONCRETE/MASONRY SUBSTRATE  
WITH FLANGE FRAME

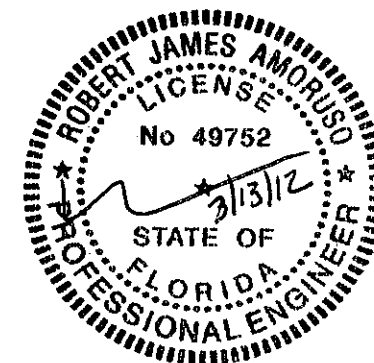


**J** VERTICAL SECTION  
WOOD FRAME SUBSTRATE  
WITH FLANGE FRAME

REVISIONS		DESCRIPTION	DATE	BY
SHEET	REV	0	08/29/11	RJA
		A	02/14/12	JBH

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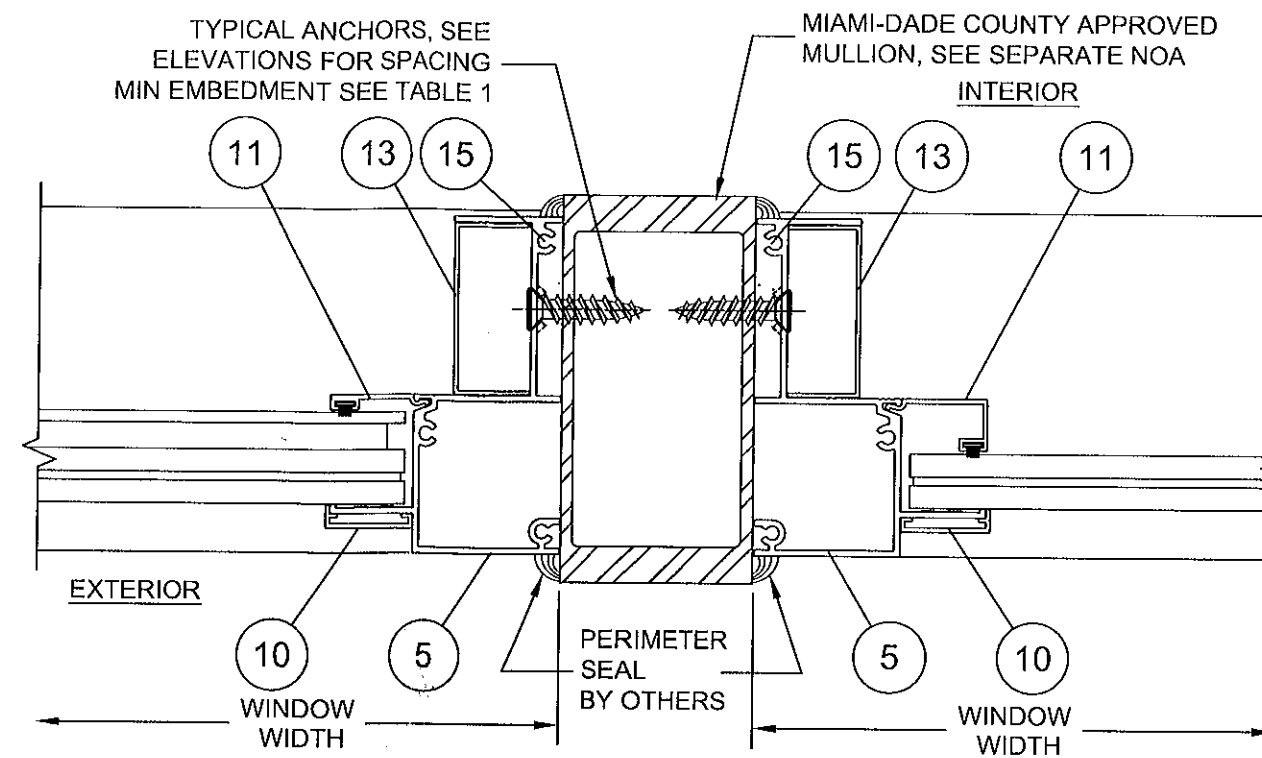
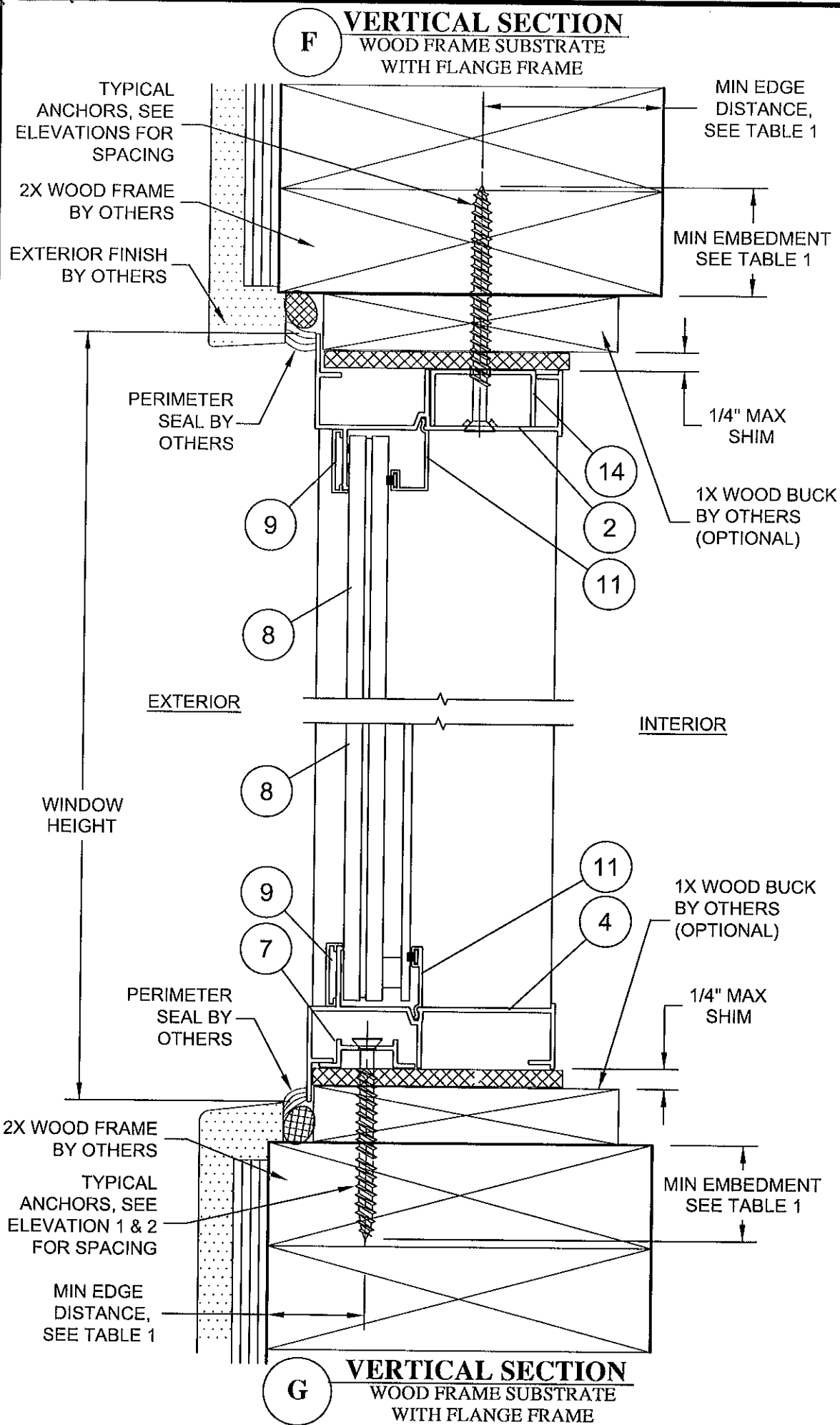
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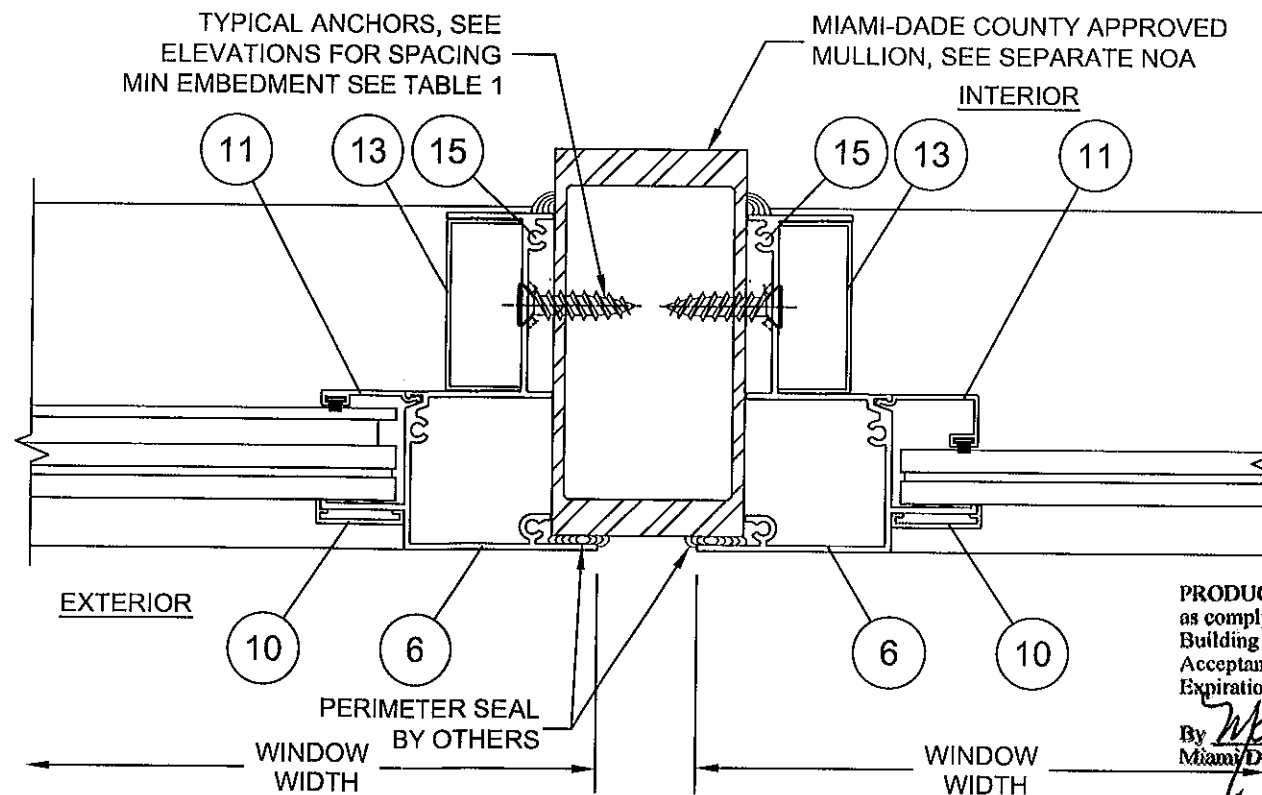
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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
VERTICAL SECTIONS G & J

SIZE	DRAWN BY: JBH	DWG NO. FEI0003	REV A
SCALE NTS	DATE: 06/29/11	SHEET 60F9	



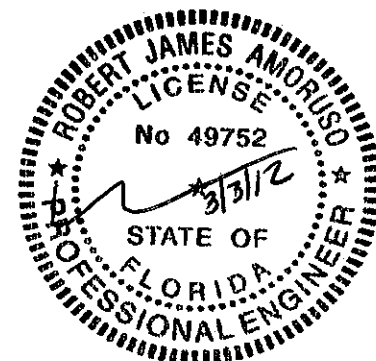
**HORIZONTAL SECTION**  
2x4 ALUMINUM TUBE MULLION  
WITH EQUAL LEG FRAME



**HORIZONTAL SECTION**  
2x4 ALUMINUM TUBE MULLION  
WITH FLANGE FRAME

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 12-0320.13  
Expiration Date Sept. 16, 2014  
By *Manuel Perez*  
Miami Dade Product Control

Robert J. Amoroso, P.E.  
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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LM) WINDOW  
VERTICAL SECTIONS F & G; HORIZONTAL MULLION SECTIONS

SIZE	DRAWN BY: JBH	DWG NO. FEI0003	REV A
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SCALE NTS	DATE: 06/29/11	SHEET 7OF9
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REVISIONS

DESCRIPTION

ORIGINAL ISSUE

UPDATE TO 2010 FBC

BY

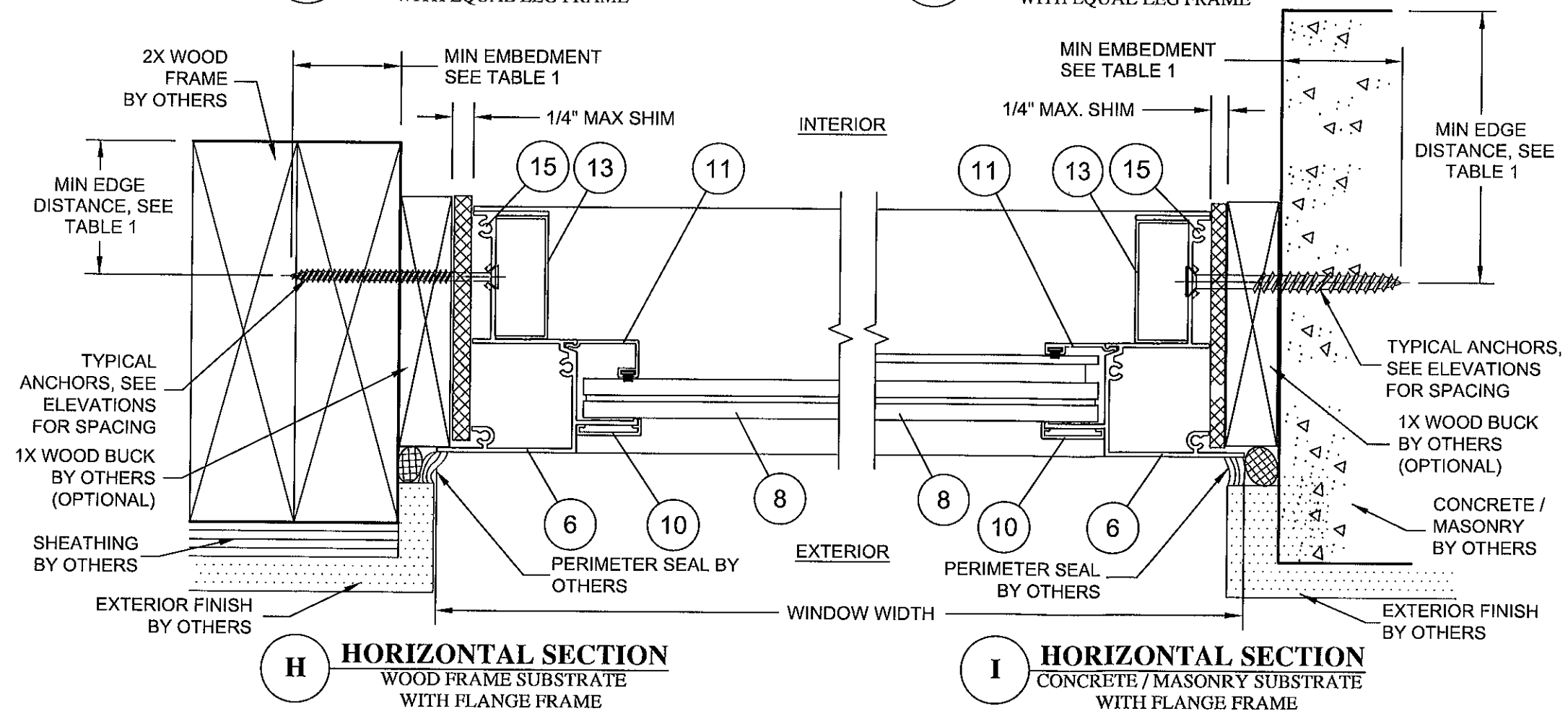
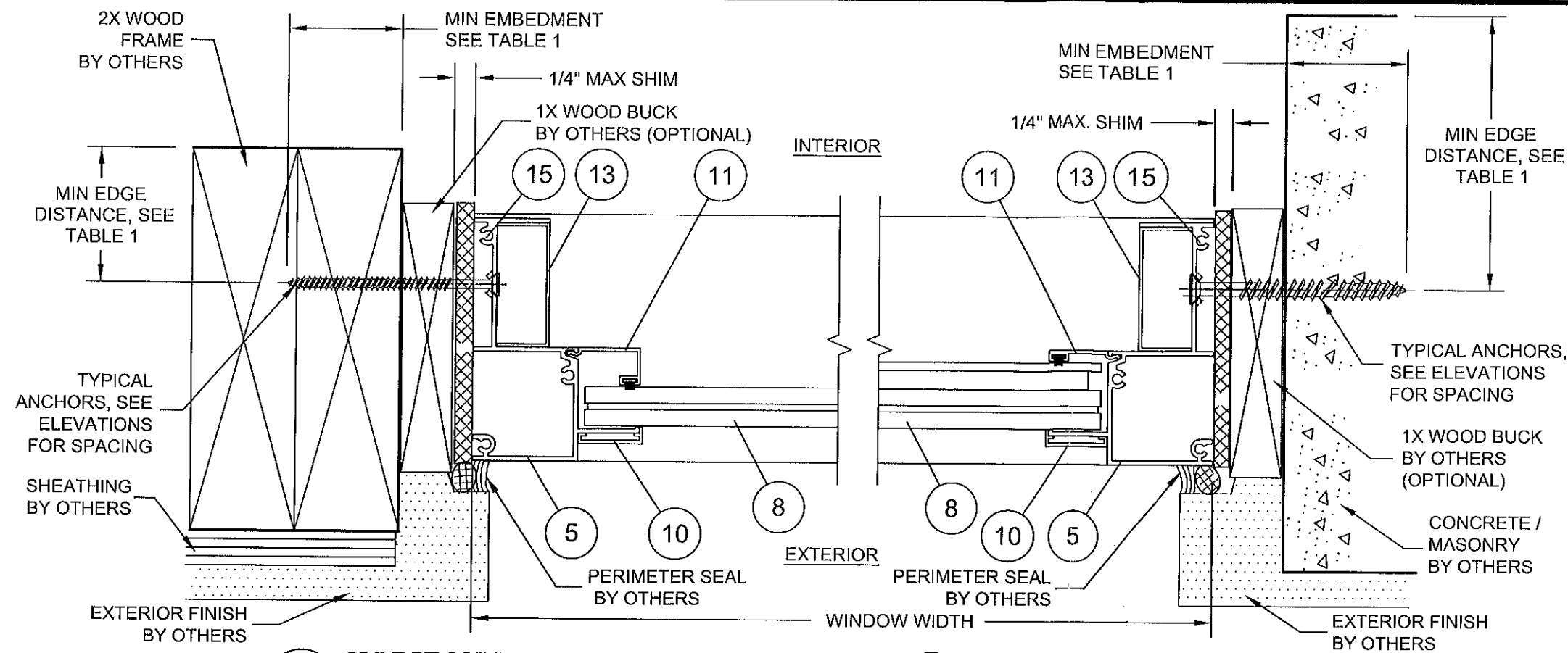
DATE

06/29/11

RJA

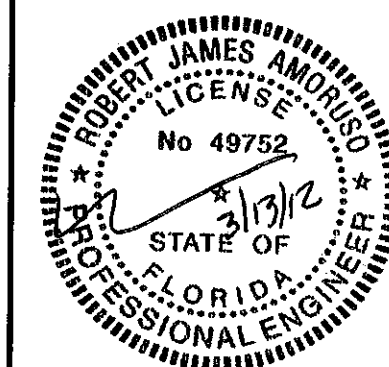
JBH

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Acceptance No. 12-0320.13  
Expiration Date 09/16/2014  
By *Mamuel Perez*  
Miami/Dade Product Control

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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
HORIZONTAL SECTIONS C, D, H & I

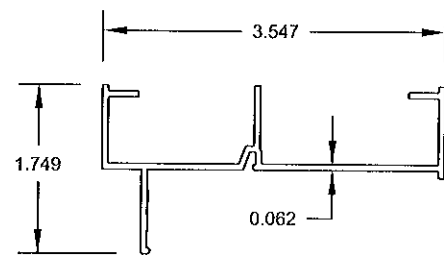
SIZE	DRAWN BY: JBH	DWG NO. FEI0003	REV A
SCALE NTS	DATE: 06/29/11	SHEET 8OF9	

REVISIONS

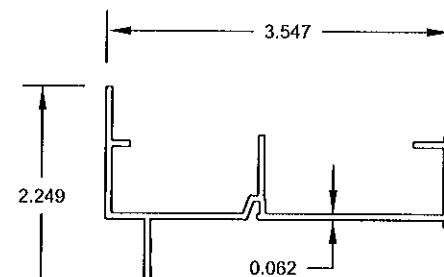
SHEET	REV	DESCRIPTION	DATE	BY
	0	ORIGINAL ISSUE	06/29/11	RJA
	A	UPDATE TO 2010 FBC	02/14/12	JBH

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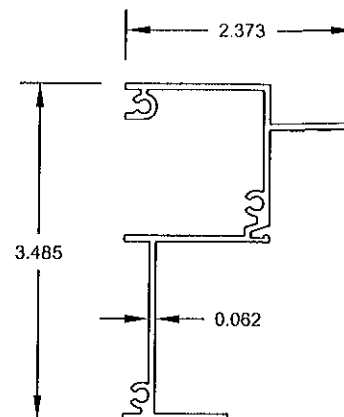
1 3 FRAME HEAD OR SILL-EQ LEG



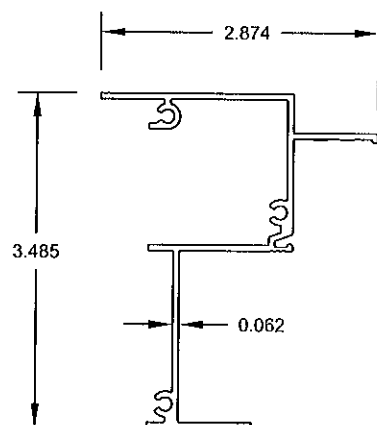
2 4 FRAME HEAD OR SILL-FLANGE



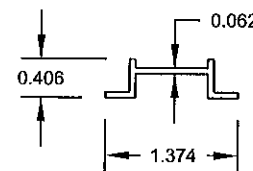
5 FRAME JAMB-EQ LEG



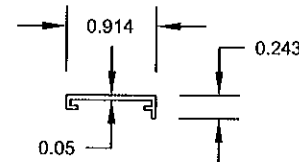
6 FRAME JAMB-FLANGE



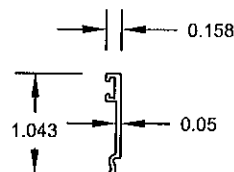
7 SILL RETAINER



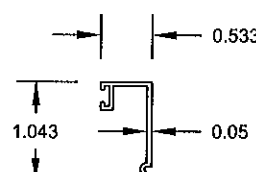
9 10 MUNTIN ADAPTOR HORIZONTAL OR VERTICAL



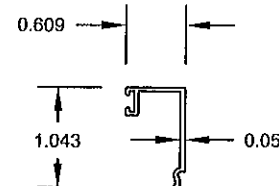
11 GLAZING BEAD HORIZONTAL OR VERTICAL FOR 1" GLASS



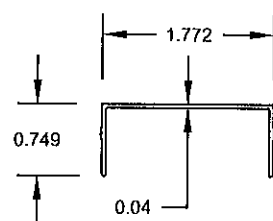
11 GLAZING BEAD HORIZONTAL OR VERTICAL FOR 9/16" GLASS



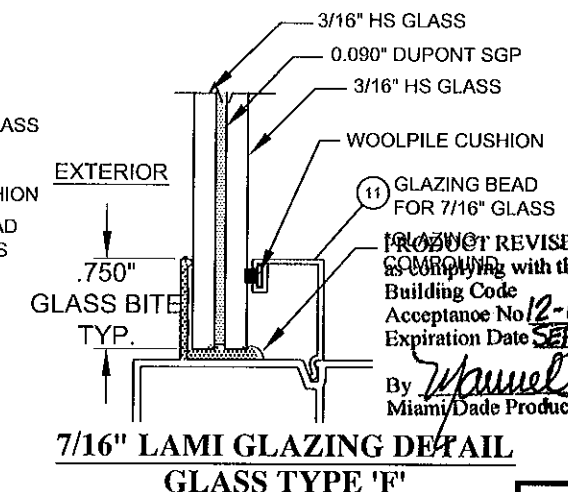
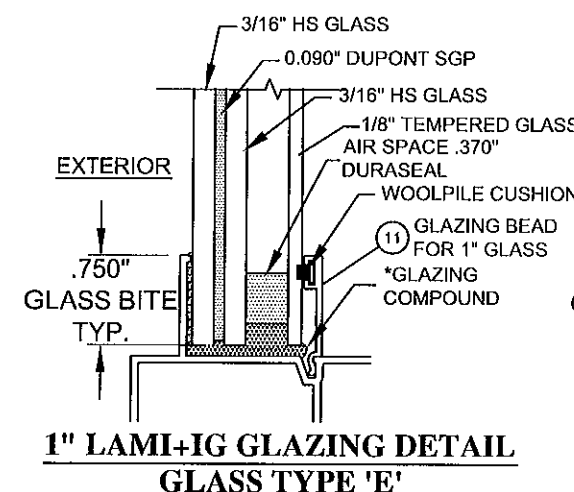
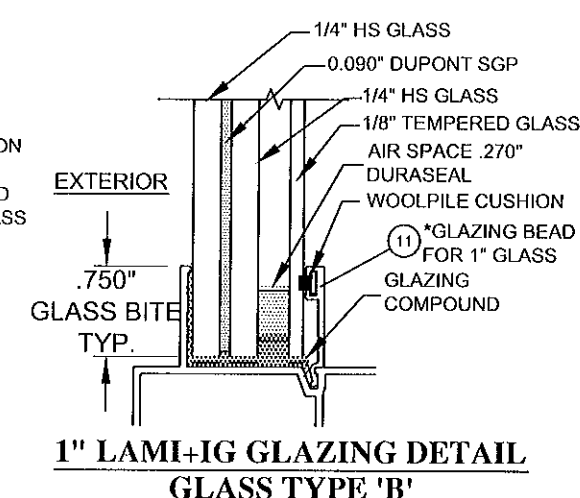
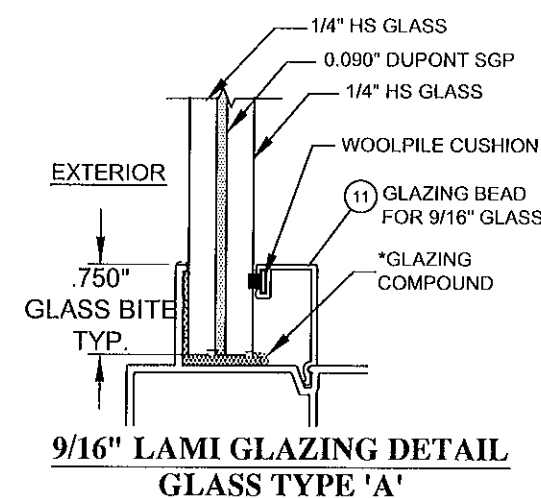
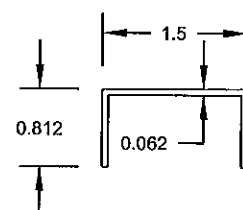
11 GLAZING BEAD HORIZONTAL OR VERTICAL FOR 7/16" GLASS



13 JAMB FILLER



14 FRAME HEAD OR SILL FILLER



BILL OF MATERIALS			
ITEM #	PART DESCRIPTION	PART # OR DWG NO.	MATERIAL
1	FRAME HEAD-EQ LEG	FE 5900	ALUM. EXTRUSION (6063-T6)
2	FRAME HEAD-FLANGE	FE 5907	ALUM. EXTRUSION (6063-T6)
3	FRAME SILL-EQ LEG	FE 5900	ALUM. EXTRUSION (6063-T6)
4	FRAME SILL-FLANGE	FE 5907	ALUM. EXTRUSION (6063-T6)
5	FRAME JAMB-EQ LEG	FE 5902	ALUM. EXTRUSION (6063-T6)
6	FRAME JAMB-FLANGE	FE 5909	ALUM. EXTRUSION (6063-T6)
7	SILL RETAINER	FE 5910	ALUM. EXTRUSION (6063-T6)
8	FIXED GLASS	NA	SEE GLAZING DETAILS
9	MUNTIN ADAPTER HORIZONTAL	FE 5911	ALUM. EXTRUSION (6063-T6)
10	MUNTIN ADAPTER VERTICAL	FE 5911	ALUM. EXTRUSION (6063-T6)
11	1" GLAZING BEAD	FE 5912	ALUM. EXTRUSION (6063-T6)
	9/16" GLAZING BEAD	FE 5914	
	7/16" GLAZING BEAD	FE 5915	
13	JAMB FILLER	FE 5918	ALUM. EXTRUSION (6063-T6)
14	FRAME HEAD OR SILL FILLER	FE 5922	ALUM. EXTRUSION (6063-T6)
15	FRAME ASSEMBLY SCREW	NA	#8 x 3/4" PN SMS SS

NOTES:  
LAMI: LAMINATED GLASS  
IG: INSULATED GLASS

\*APPROVED GLAZING COMPOUNDS  
1- NATIONAL STARCH HOT MELT  
2- DOW CORNING 995 SILICONE

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DRAWING TITLE:  
SERIES 3000 FIXED IMPACT (LMI) WINDOW  
COMPONENTS, BILLS OF MATERIAL AND GLAZING DETAILS

SIZE	DRAWN BY:	DWG NO.	REV
SIZE	JBH	FEI0003	A
SCALE	DATE:	SHEET	
NTS	06/29/11	90F9	

REVISIONS

DESCRIPTION

SHEET REV

0 A

DATE

06/29/11

ORIGINAL ISSUE

UPDATE TO 2010 FBC

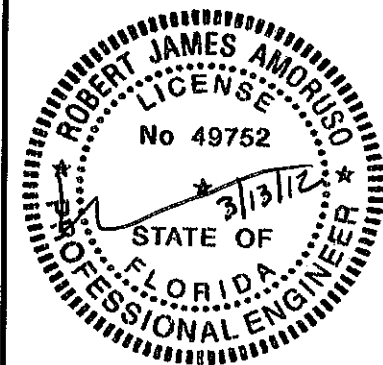
BY

RJA

JBH

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